

IN THE SPECIFICATION

Please amend the last paragraph that begins on page 5 of the original specification as follows:

In a second embodiment, the present invention provides a faucet comprising a spout and a passageway that conducts water flow through the spout. A magnetically latching valve is disposed within the passageway and has an opened position, in which water is free to flow through the passageway, and a closed position, in which the passageway is blocked. A manual valve is disposed within the passageway in series with the electrically operable valve. A manual handle controls the manual valve. A first capacitive touch control is positioned in the spout and generates a first output signal while the touch control is in contact with a user. A second capacitive touch control is positioned in the manual handle and generates a second output signal while the touch control is in contact with a user. A logical control receives the first and second output signals, and toggles the magnetically latching valve when an output signal begins and ends within a period of time between a predetermined lower bound and a predetermined upper threshold. A proximity sensor (270 in Fig. 2) is sensitive to motion of objects within a detection zone of the proximity sensor. The faucet has a manual mode, wherein the proximity sensor is inactive, and a hands-free mode, wherein the magnetically latching valve is toggled between its opened and closed positions in response to the proximity sensor, subject to being over-ridden by the output signal and logical control.

Please add the following paragraph after the last paragraph on page 7 of the original specification:

Figure 2 is a schematic diagram of an automatic faucet according to one embodiment of the present invention.

Please amend the second and third paragraphs that begin on page 8 of the original specification as follows:

A preferred embodiment faucet 210 according to the present invention includes a touch sensor 240 in the spout 220 of the faucet, and another in the manual handle 260. The touch sensor 240 in the spout permits a user to turn water flow on and off merely by tapping the spout 220. In the preferred embodiment, the faucet 210 distinguishes between a tap on the spout 220 to turn the water flow on or off, and grasping the spout 220, for example to swing it from one basin of the sink to the other. Thus, the faucet 210 provides an easy and convenient way to turn the water off and on without having to adjust the water flow rate and temperature.

The touch sensor 280 in the handle can also be used for a tap control, which distinguishes between grasping the handle 260 to adjust the water flow rate or temperature, and merely tapping it to toggle water flow off or on. Preferably, though, the touch sensor 280 in the handle 260 is used to activate water flow automatically when the faucet is in a hands-free mode, as discussed in greater detail in the concurrently filed application entitled “Multi-Mode Hands-Free Automatic Faucet.” Regardless, the touch sensor 280 in the handle 260 provides an additional source of input data for the faucet 210, which permits the faucet 210 to more accurately determine the intent of the user, thereby providing greater water savings while being intuitive and easy to use.

Please amend the last paragraph that begins on page 11 of the original specification as follows:

In the preferred embodiment the touch sensor 240 is used with a logical control 245 to actuate an automatic valve 230 that is placed in series with the manual valve 250, so that the water flow can be toggled on and off without the need to reposition the manual valve 250. In

this way, the water can be toggled on and off without altering the flow rate and the water temperature. The logical control 245 is preferably implemented with electrical or electronic circuitry, as is known in the art, that controls an electrically controlled valve 230, such as a magnetically latching solenoid valve.

Please amend the second full paragraph on page 12 of the original application as follows:

In the preferred embodiment the touch control 240 in the spout 220 and the touch control 280 in the handle 260 articulate the electrically operable valve 230 via separate logical controls. (Although the logical controls are preferably distinct, they are preferably implemented with a single electric or electronic circuit 245.) In the preferred embodiment the touch control 240 in the spout 220 is controlled by a logical control that distinguishes between a grasping contact, such as occurs when a user touches the spout to reposition it, and a mere tap, which is presumed to be an instruction to toggle water flow.